H0395-TMA

RECRA ENVIRONMENTAL INC.

0051544

Chemical and Environmental Measurement Information

Recra LabNet Philadelphia
Analytical Report

Client : TNU-HANFORD B99-062
RFW# : 9904L832
SDG/SAF #: H0395/B99-062

W.O. #: 10985-001-001-9999-00
Date Received: 04-30-99

GC/MS VOLATILE

Four (4) water samples were collected on 04-28-99.

The samples and their associated QC samples were analyzed according to criteria set forth in Recra OPs based on SW 846 Method 8260A for TCL Volatile target compounds on 05-01,12-99.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analyses:

1. The cooler temperature upon receipt has been recorded on the chain-of-custody.
2. The required holding time for analysis was met.
3. Non-target compounds were detected in the samples.
4. Sample B0VDC6 required medium level analysis due to high levels of both target and non-target compounds.
5. All surrogate recoveries were within EPA QC limits.
6. The method blanks contained the common laboratory contaminants Methylene Chloride and Acetone at levels less than the CRQL.

Pat Ec

J. Michael Taylor
Vice President
Philadelphia Analytical Laboratory

6-11-99
Date

som\group\data\ voa\tnu04832.doc

208 Welsh Pool Road • Lionville, PA 19341-1333 • (610) 280-3000 • Fax (610) 280-3041

GLOSSARY OF VOA DATA

DATA QUALIFIERS

U = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.

J = Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.

B = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.

E = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.

D = Identifies all compounds identified in an analysis at a secondary dilution factor.

I = Interference.

NQ = Result qualitatively confirmed but not able to quantify.

N = Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

X = This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).

Y = Additional qualifiers used as required are explained in the case narrative.

GLOSSARY OF VOA DATA

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Suffix added to sample number to indicate that results are from a diluted analysis.

NA = Not Applicable.

DF = Dilution Factor.

NR = Not Required.

SP, Z = Indicates Spiked Compound.

Recra LabNet - Lionville Laboratory

Volatiles by GC/MS, HSL List — Report Date: 05/13/99 16:18

RFW Batch Number: **9904L832** Client: **TNU-HANFORD B99-062** Work Order: 10985001001 Page: 1a

	Cust ID:	B0VDC7	B0VDC8	B0VDC9	B0VDC6	VBLKAR	VBLKCE
Sample Information	RFW#:	001	002	003	004	99LVN134-MB1	99LVH154-MB1
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	1.00	1.00	8.00	1.00	8.00
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	Level:	LOW	LOW	LOW	MED	LOW	MED
Surrogate Recovery	Toluene-d8	100 %	99 %	100 %	108 %	100 %	96 %
	Bromofluorobenzene	103 %	101 %	100 %	97 %	102 %	96 %
	1,2-Dichloroethane-d4	106 %	106 %	106 %	88 %	106 %	85 %
Chloromethane		10 U	10 U	10 U	5000 U	10 U	5000 U
Bromomethane		10 U	10 U	10 U	5000 U	10 U	5000 U
Vinyl Chloride		10 U	10 U	10 U	5000 U	10 U	5000 U
Chloroethane		10 U	10 U	10 U	5000 U	10 U	5000 U
Methylene Chloride		5 U	5 U	5 U	6200 B	1 J	2300 J
Acetone		2 JB	2 JB	5 JB	80000 B	4 J	1800 J
Carbon Disulfide		5 U	5 U	5 U	2500 U	5 U	2500 U
1,1-Dichloroethene		5 U	5 U	5 U	2500 U	5 U	2500 U
1,1-Dichloroethane		5 U	5 U	5 U	2500 U	5 U	2500 U
1,2-Dichloroethene (total)		5 U	5 U	5 U	2500 U	5 U	2500 U
Chloroform		5 U	5 U	5 U	2500 U	5 U	2500 U
1,2-Dichloroethane		5 U	5 U	5 U	2500 U	5 U	2500 U
2-Butanone		10 U	10 U	10 U	5000 U	10 U	5000 U
1,1,1-Trichloroethane		5 U	5 U	5 U	2500 U	5 U	2500 U
Carbon Tetrachloride		5 U	5 U	5 U	2500 U	5 U	2500 U
Bromodichloromethane		5 U	5 U	5 U	2500 U	5 U	2500 U
1,2-Dichloropropane		5 U	5 U	5 U	2500 U	5 U	2500 U
cis-1,3-Dichloropropene		5 U	5 U	5 U	2500 U	5 U	2500 U
Trichloroethene		5 U	5 U	5 U	2500 U	5 U	2500 U
Dibromochloromethane		5 U	5 U	5 U	2500 U	5 U	2500 U
1,1,2-Trichloroethane		5 U	5 U	5 U	2500 U	5 U	2500 U
Benzene		5 U	5 U	5 U	2500 U	5 U	2500 U
Trans-1,3-Dichloropropene		5 U	5 U	5 U	2500 U	5 U	2500 U
Bromoform		5 U	5 U	5 U	2500 U	5 U	2500 U
4-Methyl-2-pentanone		10 U	10 U	10 U	5000 U	10 U	5000 U
2-Hexanone		10 U	10 U	10 U	5000 U	10 U	5000 U
Tetrachloroethene		5 U	5 U	5 U	2500 U	5 U	2500 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	2500 U	5 U	2500 U
Toluene		5 U	5 U	5 U	600 J	5 U	2500 U

*= Outside of EPA CLP QC limits.

05-13-99

Cust ID:	B0VDC7	B0VDC8	B0VDC9	B0VDC6	VBLKAR	VBLKCE
RFW#:	001	002	003	004	99LVN134-MB1	99LVH154-MB1
Level:	LOW	LOW	LOW	MED	LOW	MED
Chlorobenzene	5 U	5 U	5 U	2500 U	5 U	2500 U
Ethylbenzene	5 U	5 U	5 U	39000	5 U	2500 U
Styrene	5 U	5 U	5 U	2500 U	5 U	2500 U
Xylene (total)	5 U	5 U	5 U	44000	5 U	2500 U

*= Outside of EPA CLP QC limits.

gw 05-13-99

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

B0VDC7

Lab Name: Recra.LabNet Contract: 10985001001

Lab Code: Recra Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9904L832-001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: n050105

Level: (low/med) LOW Date Received: 04/30/99

% Moisture: not dec. _____ Date Analyzed: 05/01/99

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SILANE	9.032	20	J

FORM 1 VOA-TIC 1/87 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0VDC8

Lab Name: Recra.LabNet Contract: 10985001001

Lab Code: Recra Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9904L832-002

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: n050106

Level: (low/med) LOW Date Received: 04/30/99

% Moisture: not dec. _____ Date Analyzed: 05/01/99

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SILANE	9.025	8	J

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0VDC9

Lab Name: Recra,LabNet Contract: 10985001001

Lab Code: Recra Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9904L832-003

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: n050107

Level: (low/med) LOW Date Received: 04/30/99

% Moisture: not dec. _____ Date Analyzed: 05/01/99

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SILANE	9.026	8	J

FORM 1 VOA-TIC 1/87 Rev.

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

B0VDC6

Lab Name: Recra.LabNet Contract: 10985001001

Lab Code: Recra Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9904L832-004

Sample wt/vol: 1.00 (g/mL) ML Lab File ID: h051213

Level: (low/med) MED Date Received: 04/30/99

% Moisture: not dec. _____ Date Analyzed: 05/12/99

Column: (pack/cap) CAP Dilution Factor: 8.00

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 76131	ETHANE, 1,1,2-TRICHLORO-1,2,	8.617	200000	NJ
2. 142825	HEPTANE	14.374	8000	NJ
3. 98828	BENZENE, (1-METHYLETHYL)-	20.240	7000	NJ
4. 104767	1-HEXANOL, 2-ETHYL-	21.850	30000	NJ
5. 103093	ACETIC ACID, 2-ETHYLHEXYL ES	22.650	10000	NJ

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKAR

Lab Name: Recra.LabNet Contract: 10985001001

Lab Code: Recra Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 99LVN134-MB1

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: n050104

Level: (low/med) LOW Date Received: 05/01/99

% Moisture: not dec. _____ Date Analyzed: 05/01/99

Column: (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

FORM 1 VOA-TIC 1/87 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKCE

Lab Name: Recra.LabNet Contract: NONE

Lab Code: Recra Case No.: _____ SAS No.: _____ SDG No.: _____

pw 05-13-99

Matrix: (soil/water) ~~SOIL~~ WATER Lab Sample ID: 99LVH154-MB1

Sample wt/vol: 1.00 (g/mL) G Lab File ID: h051204

Level: (low/med) MED Date Received: 05/12/99

% Moisture: not dec. 0 Date Analyzed: 05/12/99

Column: (pack/cap) CAP Dilution Factor: 8.00

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

FORM 1 VOA-TIC 1/87 Rev.

Recra LabNet - Lionville Laboratory
VOA ANALYTICAL DATA PACKAGE FOR
TNU-HANFORD B99-062

DATE RECEIVED: 04/30/99 RFW LOT # :9904L832

CLIENT ID	RFW #		MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B0VDC7	001		W	99LVN134	04/28/99	N/A	05/01/99
B0VDC8	002		W	99LVN134	04/28/99	N/A	05/01/99
B0VDC9	003		W	99LVN134	04/28/99	N/A	05/01/99
B0VDC6	004	M1	W	99LVH154	04/28/99	N/A	05/12/99
LAB QC:							
VBLKAR	MB1		W	99LVN134	N/A	N/A	05/01/99
VBLKCE	MB1		W	99LVH154	N/A	N/A	05/12/99

05-13-99

(8) Schnell

RECRA LabNet Use Only: 9904L832

Custody Transfer Record/Lab Work Request

RECRA LabNet

Client: TNU Hanford B99-0102
Est. Final Proj. Sampling Date
Project #: 10985-001-001-9999-00
Project Contact/Phone #
RECRA Project Manager: OJ
QC: Spec Del: Std TAT: 72 hrs 3 day
Date Rec'd: 4/30/99 Date Due: 5/3/99
Account #

	Refrigerator #			2			3
#/Type Container	Liquid	8	Bag	Liqu			1g
	Solid						
Volume	Liquid	VO					
	Solid						
Preservatives		HCl					

ANALYSES REQUESTED → ORGANIC: VOA, BNA, Pest/PCB, Herb; INORG: Metal, CN

MATRIX CODES: S - Soil, SE - Sediment, SO - Solid, SL - Sludge, W - Water, O - Oil, A - Air, DS - Drum Solids, DL - Drum Liquids, L - EP/TCLP Leachate, WI - Wipe, X - Other, F - Fish

RECRA LabNet Use Only

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	OE024H	O7025H			OGCSC
001	BOVDC7			W	4/26/99	1306	X	X			✓
002	BOVDC8			↓	↓	1621	X	X			✓
003	BOVDC9			↓	↓	1628	X	X			✓
004	BOVDC6			W	↓	1326	✓			✓	X 5/11/99

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
OGCSC - See Steve Wesson

COMPOSITE WASTE

DATE/REVISIONS:
1. No QC Required
5/11/99 2. added to GC Scan (004)
3.
4.
5.
6.

RECRA LabNet Use Only

Samples were:
1) Shipped ✓ or Hand Delivered ___
Airbill # *
2) Ambient or Chilled (circled)
3) Received in Good Condition (Y) or N
4) Labels Indicate Properly Preserved (Y) or N
5) Received Within Holding Times (Y) or N

COC Tape was:
1) Present on Outer Package (Y) or N
2) Unbroken on Outer Package (Y) or N
3) Present on Sample (Y) or N
4) Unbroken on Sample (Y) or N
COC Record Present Upon Sample Rec't (Y) or N

Relinquished by	Received by	Date	Time
Fed Ex	[signature]	4/30/99	0900

Relinquished by	Received by	Date	Time

ORIGINAL REWRITTEN

Discrepancies Between Samples Lables and COC Record? Y or (N)
NOTES:
* 4235795253 71
4.3°

Page 1 of 1

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B99-062-02	Page 1 of 1

Collector R. Nielson/D. Bowers	**Company Contact** Joan Kessner **Telephone No.** 375-4688	**Project Coordinator** WEISS, RL	**Price Code** 72 hrs **Data Turnaround** usiness D 14
Project Designation 3728 Building Floor Sealer	**Sampling Location** 300 Area	**SAF No.** B99-062	
Ice Chest No. ERC 99-~~005~~ 012	**Field Logbook No.** EL-1381-2	**Method of Shipment** Federal Express	
Shipped To ~~EMA~~/RECRA 4-29-99	**Offsite Property No.** A990126	**Bill of Lading/Air Bill No.** 4235 7952 5371	
		COA MEA123 A81C	

POSSIBLE SAMPLE HAZARDS/REMARKS	Preservation	Cool 4C	HCl to pH <2 Cool 4C								
	Type of Container	aGs*	aGs*								
	No. of Container(s)	1	3								
Special Handling and/or Storage Cool 4C	Volume	1000mL	40mL								
SAMPLE ANALYSIS		Semi-VOA - 8270A (TCL)	VOA - 8260A (TCL)								

Sample No.	Matrix *	Sample Date	Sample Time									
B0VDC7	Water	4-28-99	1306	X	X							
B0VDC8	Water	4-28-99	1621	X	X							
B0VDC9	Water	4-28-99	1628	X	X							

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By	Date/Time	Received By	Date/Time
R Nielson/R Nielson	4/28/99 1700	Ref. 1A	4/28/99 1700
Ref 1A	4-29-99 0930	Doug Bowers	4-29-99 0930
Doug Bowers	4-29-99 1030	Fed Ex	
Fed Ex	4/30/99 0900		4/30/99 0900

SPECIAL INSTRUCTIONS
** Close SDG upon receipt.

samples from non-rad area

Matrix *
Soil
Water
Vapor
Other Solid
Other Liquid

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B99-062-01	Page 1 of 1

Collector: R. Nielson/D. Bowers	Company Contact: Joan Kessner	Telephone No.: 375-4688	Project Coordinator: WEISS, RL
Project Designation: 3728 Building Floor Sealer	Sampling Location: 100N		SAF No.: B99-062
Ice Chest No.: ERC 99-003	Field Logbook No.: EL-1381-2		Method of Shipment: Federal Express
Shipped To: ~~TMA~~/RECRA 4-29-99	Offsite Property No.: A990125		Bill of Lading/Air Bill No.: 4235 7952 5360 - 4.8
			COA

Price Code: 72 hrs

Data Turnaround: usiness D

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage
Cool 4C

Preservation	Cool 4C
Type of Container	aGs*
No. of Container(s)	1
Volume	40mL
SAMPLE ANALYSIS	VOA - 8260A (TCL)

Sample No.	Matrix *	Sample Date	Sample Time	VOA - 8260A (TCL)
B0VDC6	other liquid ~~Water~~ DB 4-29-99	4-28-99	1326	X

CHAIN OF POSSESSION	Sign/Print Names	
Relinquished By Doug Bowers	Date/Time 4-28-99/1700	Received By 3728 bldg cooler ERC 97-079 Date/Time 4-28-99/1700
Relinquished By cooler ERC97-079	Date/Time 4-29-99/0930	Received By Doug Bowers Date/Time 4-29-99/0930
Relinquished By Doug Bowers	Date/Time 4-29-99/1030	Received By Fed Ex Date/Time
Relinquished By [signature]	Date/Time 4/30/99 0900	Received By D Smith Date/Time 4/30/99 0900

SPECIAL INSTRUCTIONS
** Sample B0VDC6 is original floor sealant material (greater than 40% organic). Ship VOA bottles only for this sample.
** Close SDG upon receipt.

on ice in ERC 97-079

samples from non rad area

Matrix *
Soil
Water
Vapor
Other Solid
Other Liquid

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

RECRA ENVIRONMENTAL INC.
Chemical and Environmental Measurement Information

Recra LabNet Philadelphia
Analytical Report

Client : TNU-HANFORD B99-062
RFW# : 9904L832
SDG/SAF #: H0395/B99-062

W.O. #: 10985-001-001-9999-00
Date Received: 04-30-99

SEMIVOLATILE

Three (3) water samples were collected on 04-28-99.

The samples and their associated QC samples were extracted on 05-03-99 and analyzed according to criteria set forth in Recra OPs based on SW 846 Method 8270B for TCL Semivolatile target compounds on 05-09,11-99.

The following is a summary of the QC results accompanying the sample results and a description of any problems encountered during their analyses:

1. The cooler temperature upon receipt has been recorded on the chain-of-custody.

2. All required holding times for extraction and analysis were met.

3. Non-target compounds were detected in the samples.

4. The levels reported for Dimethylphthalate and Di-n-butylphthalate in sample B0VDC9 exceeded the calibration range; however, this analysis was for screen purposes and dilution was not required.

5. Two (2) of thirty (30) surrogate recoveries were outside EPA QC limits. The out of criteria surrogate recoveries reported for sample B0VDC9 are due to a probable matrix effect.

6. All blank spike recoveries were within EPA QC limits.

7. The method blank contained the common laboratory contaminants Di-n-butylphthalate and Bis(2-ethylhexyl)phthalate at levels less than the CRQL.

Pat Ec
J. Michael Taylor
Vice President
Philadelphia Analytical Laboratory

6-11-99
Date

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208 Welsh Pool Road • Lionville, PA 19341-1333 • (610) 280-3000 • Fax (610) 280-3041

GLOSSARY OF BNA DATA

DATA QUALIFIERS

U	=	Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.
J	=	Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
B	=	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.
E	=	Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
D	=	Identifies all compounds identified in an analysis at a secondary dilution factor.
I	=	Interference.
NQ	=	Result qualitatively confirmed but not able to quantify.
A	=	Indicates that a TIC is a suspected aldol-condensation product.
N	=	Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
X	=	This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).
Y	=	Additional qualifiers used as required are explained in the case narrative.

GLOSSARY OF BNA DATA

ABBREVIATIONS

BS = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.

BSD = Indicates blank spike duplicate.

MS = Indicates matrix spike.

MSD = Indicates matrix spike duplicate.

DL = Suffix added to sample number to indicate that results are from a diluted analysis.

NA = Not Applicable.

DF = Dilution Factor.

NR = Not Required.

SP, Z = Indicates Spiked Compound.

	Cust ID:	B0VDC7	B0VDC8	B0VDC9	SBLKVJ	SBLKVJ BS
Sample Information	RFW#:	001	002	003	99LE0535-MB1	99LE0535-MB1
	Matrix:	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.00	1.00	1.00	1.00	1.00
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate Recovery	Nitrobenzene-d5	68 %	59 %	140 * %	68 %	72 %
	2-Fluorobiphenyl	57 %	59 %	76 %	60 %	68 %
	Terphenyl-d14	77 %	73 %	66 %	80 %	79 %
	Phenol-d5	67 %	39 %	2 * %	63 %	42 %
	2-Fluorophenol	64 %	22 %	33 %	64 %	70 %
	2,4,6-Tribromophenol	74 %	35 %	82 %	81 %	89 %
Phenol		10 U	10 U	10 U	10 U	72 %
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	69 %
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	42 %
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U
2-Methylphenol		10 U	10 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U
4-Methylphenol		10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	71 %
Hexachloroethane		10 U	10 U	10 U	10 U	10 U
Nitrobenzene		10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol		10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	45 %
Naphthalene		10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	70 %
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		25 U	25 U	25 U	25 U	25 U

*= Outside of EPA CLP QC limits.

05

Cust ID:	B0VDC7		B0VDC8		B0VDC9		SBLKVJ		SBLKVJ BS	
RFW#:	001		002		003		99LE0535-MB1		99LE0535-MB1	
2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	25	U	25	U	25	U	25	U	25	U
Dimethylphthalate	10	U	1	J	1600	E	10	U	10	U
Acenaphthylene	10	U	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	25	U	25	U	25	U	25	U	25	U
Acenaphthene	10	U	10	U	10	U	10	U	69	%
2,4-Dinitrophenol	25	U	25	U	25	U	25	U	25	U
4-Nitrophenol	25	U	25	U	25	U	25	U	69	%
Dibenzofuran	10	U	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	10	U	10	U	72	%
Diethylphthalate	10	U	10	U	4	J	10	U	10	U
4-Chlorophenyl-phenylether	10	U	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	25	U	25	U	25	U	25	U	25	U
4,6-Dinitro-2-methylphenol	25	U	25	U	25	U	25	U	25	U
N-Nitrosodiphenylamine (1)	10	U	10	U	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U	10	U
Pentachlorophenol	25	U	25	U	25	U	25	U	80	%
Phenanthrene	10	U	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U	10	U
Carbazole	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate	10	U	2	JB	500	EB	0.7	J	1	JB
Fluoranthene	10	U	10	U	10	U	10	U	10	U
Pyrene	10	U	10	U	10	U	10	U	75	%
Butylbenzylphthalate	10	U	2	J	10	U	10	U	10	U
3,3'-Dichlorobenzidine	10	U	10	U	10	U	10	U	10	U
Benzo(a)anthracene	10	U	10	U	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	10	U	10	U	2	JB	2	J	10	U
Di-n-octyl phthalate	10	U	10	U	10	U	10	U	10	U
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U	10	U
Dibenz(a,h)anthracene	10	U	10	U	10	U	10	U	10	U
Benzo(g,h,i)perylene	10	U	10	U	10	U	10	U	10	U

(1) - Cannot be separated from Diphenylamine. *= Outside of EPA CLP QC limits.

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

B0VDC7

Lab Name: Recra.LabNet Contract: 10985001001

Lab Code: Recra Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9904L832-001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D050909

Level: (low/med) LOW Date Received: 04/30/99

% Moisture: _____ decanted: (Y/N)__ Date Extracted: 05/03/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/09/99

Injection Volume: 2.0(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.32	5	JB
2.		UNKNOWN	7.67	2	J

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

B0VDC8

Lab Name: Recra.LabNet Contract: 10985001001

Lab Code: Recra Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9904L832-002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D050910

Level: (low/med) LOW Date Received: 04/30/99

% Moisture: _____ decanted: (Y/N)__ Date Extracted: 05/03/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/09/99

Injection Volume: 2.0(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		METHOXYETHOXYETHANOL	7.32	7	J
2.		UNKNOWN	9.00	10	J
3.		BUTOXYETHOXYETHANOL	11.69	90	J
4.	95-16-9	BENZOTHIAZOLE	12.59	4	JN
5.	149-30-4	2-MERCAPTOBENZOTHIAZOLE	20.92	4	JN
6.		ALKANE	24.74	4	J

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

B0VDC9

Lab Name: Recra.LabNet Contract: 10985001001

Lab Code: Recra Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9904L832-003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D050911

Level: (low/med) LOW Date Received: 04/30/99

% Moisture: _____ decanted: (Y/N)__ Date Extracted: 05/03/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/09/99

Injection Volume: 2.0(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		SILOXANE	10.89	500	J
2.		BUTOXYETHOXYETHANOL	12.35	20000	J
3.		UNKNOWN	20.03	500	J
4.		UNKNOWN	20.31	1000	J
5.		2-BUTOXYETHANOL PHOSPHATE	23.00	400	J

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLKVJ

Lab Name: Recra.LabNet Contract: 10985001001

Lab Code: Recra Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 99LE0535-MB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D051103

Level: (low/med) LOW Date Received: 05/03/99

% Moisture: _____ decanted: (Y/N) __ Date Extracted: 05/03/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/11/99

Injection Volume: 2.0(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.01	2	J
2.		UNKNOWN	6.45	2	J
3.		UNKNOWN	6.72	4	J
4.		UNKNOWN	6.97	4	J
5.		UNKNOWN	7.02	7	J
6.		UNKNOWN	7.33	6	J
7.		UNKNOWN	13.07	2	J

Recra LabNet - Lionville Laboratory
BNA ANALYTICAL DATA PACKAGE FOR
TNU-HANFORD B99-062

DATE RECEIVED: 04/30/99 RFW LOT # :9904L832

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
B0VDC7	001	W	99LE0535	04/28/99	05/03/99	05/09/99
B0VDC8	002	W	99LE0535	04/28/99	05/03/99	05/09/99
B0VDC9	003	W	99LE0535	04/28/99	05/03/99	05/09/99
LAB QC:						
SBLKVJ	MB1	W	99LE0535	N/A	05/03/99	05/11/99
SBLKVJ	MB1 BS	W	99LE0535	N/A	05/03/99	05/11/99

(8) Schnell

RECRA LabNet Use Only
9904L832

Custody Transfer Record/Lab Work Request

RECRA LabNet

Client: TNU Hanford B99-002
Est. Final Proj. Sampling Date
Project #: 10986-001-001-9999-00
Project Contact/Phone #
RECRA Project Manager
QC
Date Rec'd: 4/30/99 Date Due: 5/3/99
Account #

	Refrigerator #		3			3
#/Type Container	Liquid					
	Solid					
Volume	Liquid					
	Solid					
Preservatives						

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	ORGANIC VOA (0224H)	BNA (0625H)	Pest/PCB	Herb	OGCSC	INORG Metal	CN
001	BOVDC7			W	4/30/99	1306	X	X			✓		
002	BOVDC8					1621	X	X			✓		
003	BOVDC9					1628	X	X			✓		
004	BOVDC6			W		1326	✓				X 5/11/99		

MATRIX CODES:
S - Soil
SE - Sediment
SD - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
OGCSC - See Steve Wesson

COMPOSITE WASTE

DATE/REVISIONS:
1. No QC Required
5/11/99 2. added to GC Scan (004)
3.
4.
5.
6.

RECRA LabNet Use Only

Samples were:
1) Shipped ✓ or Hand Delivered
Airbill # *
2) Ambient or (Chilled)
3) Received in Good Condition (Y) or N
4) Labels Indicate Properly Preserved (Y) or N
5) Received Within Holding Times (Y) or N

COC Tape was:
1) Present on Outer Package (Y) or N
2) Unbroken on Outer Package (Y) or N
3) Present on Sample (Y) or N
4) Unbroken on Sample (Y) or N
COC Record Present Upon Sample Rec't (Y) or N

Relinquished by	Received by	Date	Time
Fed Ex	[signature]	4/30/99	0900

Relinquished by	Received by	Date	Time

ORIGINAL REWRITTEN

Discrepancies Between Samples Lables and COC Record? Y or (N)
NOTES:
*423579525371 4.3°

Bechtel Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B99-062-02	Page 1 of 1

Collector R. Nielson/D. Bowers	Company Contact Joan Kessner	Telephone No. 375-4688	Project Coordinator WEISS, RL
Project Designation 3728 Building Floor Sealer	Sampling Location 300 Area		SAF No. B99-062
Ice Chest No. ERC 99-~~003~~ 012 (initialed 4-29-99)	Field Logbook No. EL-1381-2		Method of Shipment Federal Express
Shipped To ~~TMA~~/RECRA (initialed 4-29-99)	Offsite Property No. A990126		Bill of Lading/Air Bill No. 4235 7952 5371
			COA MEA123 A81C

Price Code: 72 hrs

Data Turnaround: usiness D

POSSIBLE SAMPLE HAZARDS/REMARKS			
	Preservation	Cool 4C	HCl to pH <2 Cool 4C
	Type of Container	aGs*	aGs*
	No. of Container(s)	1	3
Special Handling and/or Storage Cool 4C	Volume	1000mL	40mL
SAMPLE ANALYSIS		Semi-VOA - 8270A (TCL)	VOA - 8260A (TCL)

Sample No.	Matrix *	Sample Date	Sample Time	Semi-VOA - 8270A (TCL)	VOA - 8260A (TCL)
B0VDC7	Water	4-28-99	1306	X	X
B0VDC8	Water	4-28-99	1621	X	X
B0VDC9	Water	4-28-99	1628	X	X

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By: R. Nielson / R. Nielson	4/28/99 1700	Received By: Ref. IA	4/28/99 1700
Relinquished By: Ref IA	4-29-99 0930	Received By: Doug Bowers / Doug Bowers	4-29-99/0930
Relinquished By: Doug Bowers / Doug Bowers	4-29-99/1030	Received By: Fed Ex	
Relinquished By: Fed Ex	4/30/99/0900	Received By: [illegible signature]	4/30/99/0900

SPECIAL INSTRUCTIONS

** Close SDG upon receipt.

samples from non-rad area

Matrix *: Soil, Water, Vapor, Other Solid, Other Liquid

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B99-062-01	Page 1 of 1

Collector R. Nielson/D. Bowers	**Company Contact** Joan Kessner	**Telephone No.** 375-4688	**Project Coordinator** WEISS, RL	**Price Code** 72 hrs / **Data Turnaround** usiness D
Project Designation 3728 Building Floor Sealer	**Sampling Location** 100N		**SAF No.** B99-062	
Ice Chest No. ERC 99-003	**Field Logbook No.** EL-1381-2		**Method of Shipment** Federal Express	
Shipped To ~~TMA~~/RECRA 4-29-99	**Offsite Property No.** A990125		**Bill of Lading/Air Bill No.** 4235 7952 5360 - 4.8	
			COA	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage
Cool 4C

Preservation	Cool 4C
Type of Container	aGs*
No. of Container(s)	1
Volume	40mL
SAMPLE ANALYSIS	VOA - 8260A (TCL)

Sample No.	Matrix *	Sample Date	Sample Time	VOA - 8260A (TCL)
B0VDC6	other liquid ~~Water~~ [illegible] 4-29-99	4-28-99	1326	X

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By Doug Bowers	Date/Time 4-28-99/1700	Received By 3778 bldg cooler ERC97-079	Date/Time 4-28-99/1700
Relinquished By cooler ERC97-079	Date/Time 4-29-99/0930	Received By Doug Bowers	Date/Time 4-29-99/0930
Relinquished By Doug Bowers	Date/Time 4-29-99/1030	Received By Fed Ex	Date/Time
Relinquished By [illegible]	Date/Time 4/30/99 0900	Received By D Smith	Date/Time 4/30/99 0900

SPECIAL INSTRUCTIONS
** Sample B0VDC6 is original floor sealant material (greater than 40% organic). Ship VOA bottles only for this sample.
** Close SDG upon receipt.

on ice in ERC 97-079

samples from non rad area

Matrix *
Soil
Water
Vapor
Other Solid
Other Liquid

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

RECRA ENVIRONMENTAL INC.
Chemical and Environmental Measurement Information

Recra LabNet Philadelphia
Analytical Report

Client : TNU-HANFORD B99-062
RFW# : 9904L832
SDG/SAF#: H0395/B99-062

W.O #: 10985-001-001-9999-00
Date Received: 04-30-99

GC SCAN

The set of samples consisted of (3) aqueous samples collected 04-28-99. Sample B0VDC6 was used as reference matrial for the analysis.

The samples were analyzed using GC-FID direct injection for characterization analysis on 05-07-99.

1. The quantitative reference was a 100-fold dilution of sample B0VDC6 into reagent water.

2. The analysis results are summarized as follows:

			Client Sample ID		
	Retention Time (min)	B0VD6 1:100 dilution	B0VDC7	B0VDC8	B0VDC9
Peak 1	0.830	120487	7346	8000	8637
Peak 2	3.820	568048	0	0	102862
Peak 3	8.700	75780	0	0	0
Sum of Peak Heights		764315	7346	8000	111499
		Result (% of B0VD6)	**0.010**	**0.010**	**0.15**

J. Michael Taylor
Vice President
Philadelphia Analytical Laboratory

6-11-99
Date

R:\SHARE\LC\GCSCAN\04-832.doc

208 Welsh Pool Road • Lionville, PA 19341-1333 • (610) 280-3000 • Fax (610) 280-3041

(8) ~~[illegible]~~ Schnell

RECRA LabNet Use Only: 9904L832

Custody Transfer Record/Lab Work Request

RECRA LabNet

002

Client: TNU Hanford B99-002
Est. Final Proj. Sampling Date
Project #: 10985-001-001-9999-00
Project Contact/Phone #: —
RECRA Project Manager: WJ
QC: Apea Del: Std TAT: 72 hrs 3 day
Date Rec'd: 4/30/99 Date Due: 5/3/99
Account #:

Refrigerator #		1	3			3			
#/Type Container	Liquid	2ag	1ag			1g			
	Solid	0							
Volume	Liquid	40	1L			40			
	Solid								
Preservatives		HCL	—			HCL			
ANALYSES REQUESTED		VOA (ORGANIC)	BNA (ORGANIC)	Pest/PCB (ORGANIC)	Herb (ORGANIC)		Metal (INORG)	CN (INORG)	

MATRIX CODES: S - Soil, SE - Sediment, SO - Solid, SL - Sludge, W - Water, O - Oil, A - Air, DS - Drum Solids, DL - Drum Liquids, L - EP/TCLP Leachate, WI - Wipe, X - Other, F - Fish

RECRA LabNet Use Only

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	0624H	0625H			0GCSC	
001	BOVDC7			W	4/28/99	1306	X	X			✓	
002	BOVDC8			|	|	1621	X	X			✓	
003	BOVDC9			|	|	1628	X	X			✓	
004	BOVDC6			W	|	1326	✓			✓	~~X~~	5/6/99

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
OGCSC - See Steve Wesson

COMPOSITE WASTE

DATE/REVISIONS:
1. No QC Required
5/11/99 2. added to GC Scan (004)
3.
4.
5.
6.

RECRA LabNet Use Only

Samples were:
1) Shipped ✓ or Hand Delivered ___ Airbill # *
2) Ambient or (Chilled)
3) Received in Good Condition (Y) or N
4) Labels Indicate Properly Preserved (Y) or N
5) Received Within Holding Times (Y) or N

COC Tape was:
1) Present on Outer Package (Y) or N
2) Unbroken on Outer Package (Y) or N
3) Present on Sample (Y) or N
4) Unbroken on Sample (Y) or N
COC Record Present Upon Sample Rec't (Y) or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
Fed Ex	[signature]	4/30/99	0900				

ORIGINAL REWRITTEN

Discrepancies Between Samples Lables and COC Record? Y or (N)
NOTES:
*4235795253710 4.3°

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B99-062-02	Page 1 of 1

Collector R. Nielson/D. Bowers	**Company Contact** Joan Kessner **Telephone No.** 375-4688	**Project Coordinator** WEISS, RL	**Price Code** 72 hrs **Data Turnaround** usiness D
Project Designation 3728 Building Floor Scaler	**Sampling Location** 300 Area	**SAF No.** B99-062	
Ice Chest No. ERC 99-085 012	**Field Logbook No.** EL-1381-2	**Method of Shipment** Federal Express	003
Shipped To ~~IMA~~RECRA 4-29-99	**Offsite Property No.** A990126	**Bill of Lading/Air Bill No.** 4235 7952 5371	
		COA MEA123 A81C	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage
Cool 4C

Preservation	Cool 4C	HCl to pH <2 Cool 4C								
Type of Container	aGs*	aGs*								
No. of Container(s)	1	3								
Volume	1000mL	40mL								

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	Semi-VOA - 8270A (TCL)	VOA - 8260A (TCL)							
B0VDC7	Water	4-28-99	1306	X	X							
B0VDC8	Water	4-28-99	1621	X	X							
B0VDC9	Water	4-28-99	1628	X	X							

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By	Date/Time	Received By	Date/Time
R. Nielson/R. Nielson	4/28/99 1700	REF. IA	4/28/99 1700
Relinquished By REF IA	Date/Time 4-29-99 0930	Received By Doug Bowers	Date/Time 4-29-99/0930
Relinquished By Doug Bowers	Date/Time 4-29-99/1030	Received By Fed Ex	Date/Time
Relinquished By Fed Ex	Date/Time 4/30/99/0900	Received By	Date/Time 4/30/99 0900

SPECIAL INSTRUCTIONS
** Close SDG upon receipt.

samples from non-rad area

Matrix *
Soil
Water
Vapor
Other Solid
Other Liquid

LABORATORY SECTION	Received By		Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method		Disposed By	Date/Time

Bechtel Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	B99-062-01	Page 1 of 1

Collector	Company Contact / Telephone No.	Project Coordinator	Price Code / Data Turnaround
R. Nielson/D. Bowers	Joan Kessner 375-4688	WEISS, RL	72 hrs / usiness D
Project Designation 3728 Building Floor Sealer	**Sampling Location** 100N	**SAF No.** B99-062	
Ice Chest No. ERC 99-003	**Field Logbook No.** EL-1381-2	**Method of Shipment** Federal Express	004
Shipped To TMA/RECRA 4-29-99 DB	**Offsite Property No.** A990125	**Bill of Lading/Air Bill No.** 4235 7952 5360 - 4.8	
		COA	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage
Cool 4C

Preservation	Cool 4C										
Type of Container	sGs*										
No. of Container(s)	1										
Volume	40mL										
SAMPLE ANALYSIS	VOA - 8260A (TCL)										

Sample No.	Matrix *	Sample Date	Sample Time									
B0VDC6	Other Solid	4-27-99	1326	X								
	Water 4-29-99											

CHAIN OF POSSESSION	Sign/Print Names	Date/Time
Relinquished By	Doug Bowers	4-28-99/1700
Received By	cooler ERC 99-079	4-28-99/1700
Relinquished By	cooler ERC 99-079	4-29-99/0830
Received By	Doug Bowers	4-29-99/0830
Relinquished By	Doug Bowers	4-29-99/1030
Received By	Fed Ex	
Relinquished By	Jeelup	4/30/99 0900
Received By	D Smith	4/30/99 0900

SPECIAL INSTRUCTIONS
** Sample B0VDC6 is original floor sealant material (greater than 40% organic). Ship VOA bottles only for this sample.
** Close SDG upon receipt.

on ice in ERC 99-079

samples from non rad area

Matrix *
Soil
Water
Vapor
Other Solid
Other Liquid

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time